

# Oral Health Care Practices in Acute Stroke Care

An international survey



THANK YOU FOR TAKING PART IN THIS SURVEY

**The questions in this survey refer to patients with stroke who are cared for in the stroke unit or in other wards.**

We encourage that you **consult with your colleagues** who provide oral health care for acute stroke patients **to assist in the completion of the questionnaire.**

The survey results will provide an understanding of current oral care practices for stroke patients in hospital. This information will help to identify barriers and enablers to oral health care, inform whether specific education for oral health care is required and identify topics for future research

Some answers require more than one response. Please read the questions and instructions carefully and respond as accurately as possible.

Thank you again for your participation

**Section 1 Demographics and characteristics of person completing survey.**

**1. Please provide your job title. Please tick all that apply**

|                          |                             |                          |   |
|--------------------------|-----------------------------|--------------------------|---|
| <input type="checkbox"/> | Registered Nurse            | <input type="checkbox"/> | Dentist   |
| <input type="checkbox"/> | Clinical Nurse Specialist   | <input type="checkbox"/> | Oral/ Maxillofacial Surgeon                       |
| <input type="checkbox"/> | Clinical Nurse Consultant   | <input type="checkbox"/> | Consultant: Neurologist/ Geriatrician/ Physician  |
| <input type="checkbox"/> | Nurse Unit Manager          | <input type="checkbox"/> | Medical Registrar                                 |
| <input type="checkbox"/> | Nurse Practitioner (stroke) | <input type="checkbox"/> | Speech and Language Therapist/ Speech Pathologist |
| <input type="checkbox"/> | Clinical Nurse Educator     | <input type="checkbox"/> | Occupational Therapist                            |
| <input type="checkbox"/> | Stroke Liaison Nurse        | <input type="checkbox"/> | Physician Assistant/Associate                     |
| <input type="checkbox"/> | Stroke Coordinator          | <input type="checkbox"/> | Other, <i>please specify</i> : _____              |

**2. Do you have a stroke-specific role within your facility or service?**

If yes, tick one of the following:

|                          |                                      |                          |                      |
|--------------------------|--------------------------------------|--------------------------|----------------------|
| <input type="checkbox"/> | Stroke Coordinator                   | <input type="checkbox"/> | Stroke Unit Director |
| <input type="checkbox"/> | Stroke Liaison Nurse                 |                          |                      |
| <input type="checkbox"/> | Clinical Nurse Consultant            |                          |                      |
| <input type="checkbox"/> | Other, <i>please specify</i> : _____ |                          |                      |

If no, tick box

No

**3. How long have you worked in your current role?**

\_\_\_\_\_ Years      \_\_\_\_\_ Months

**4. What is your gender?**

Male     Female     Other

**5. What is your age?**

21-30 years  
 31-40 years  
 41-50 years  
 51-60 years  
 > 60 years

**6. Please indicate below the roles of all those who may have helped you to complete the survey.**

***Please tick all that apply.***

|                          |                             |                          |   |
|--------------------------|-----------------------------|--------------------------|---|
| <input type="checkbox"/> | Registered Nurse            | <input type="checkbox"/> | Dentist   |
| <input type="checkbox"/> | Clinical Nurse Specialist   | <input type="checkbox"/> | Oral/ Maxillofacial Surgeon                       |
| <input type="checkbox"/> | Clinical Nurse Consultant   | <input type="checkbox"/> | Consultant: Neurologist/ Geriatrician/ Physician  |
| <input type="checkbox"/> | Nurse Unit Manager          | <input type="checkbox"/> | Medical Registrar                                 |
| <input type="checkbox"/> | Nurse Practitioner (stroke) | <input type="checkbox"/> | Speech and Language Therapist/ Speech Pathologist |
| <input type="checkbox"/> | Clinical Nurse Educator     | <input type="checkbox"/> | Occupational Therapist                            |
| <input type="checkbox"/> | Stroke Liaison Nurse        | <input type="checkbox"/> | Physician Assistant/Associate                     |
| <input type="checkbox"/> | Stroke Coordinator          | <input type="checkbox"/> | Other, <b><i>please specify:</i></b> _____        |

**7. What best describes the unit or ward where you work?**

|                          |   |
|--------------------------|---|
| <input type="checkbox"/> | Acute stroke Unit   |
| <input type="checkbox"/> | Ward with stroke beds, but not a 'formal acute stroke unit' |
| <input type="checkbox"/> | Integrated unit (acute and rehab beds in the same ward)     |
| <input type="checkbox"/> | Rehabilitation unit   |
| <input type="checkbox"/> | Other, <b><i>please specify:</i></b> _____                  |

## Section 2 Hospital and stroke service characteristics.

### 8. What category below best describes your hospital setting?

- Tertiary referral, University or Teaching Hospital
- Non-tertiary, General, District or Community Hospital – with Emergency Department
- Non-tertiary, General, District or Community Hospital – without Emergency Department
- Other, *please specify*: \_\_\_\_\_

### 9. Please tell us about your stroke service:

*(Please select one only)*

- We have a dedicated stroke unit with clinicians who have stroke expertise
- We **do not** have a dedicated stroke unit, but ward(s) with stroke beds
- We are a free-standing rehabilitation hospital (*go to question 11*)

### 9a. Which of the options below are provided by your acute stroke service?

*(Please select all that apply)*

|                       | <i>Service available</i> | <i>This is a 24/7 service</i> |                       |
|-----------------------|--------------------------|-------------------------------|-----------------------|
|                       |                          | <i>Y</i>                      | <i>N</i>              |
| Neurovascular imaging | <input type="radio"/>    | <input type="radio"/>         | <input type="radio"/> |
| Thrombolysis          | <input type="radio"/>    | <input type="radio"/>         | <input type="radio"/> |
| Endovascular therapy  | <input type="radio"/>    | <input type="radio"/>         | <input type="radio"/> |
| Neurosurgery          | <input type="radio"/>    | <input type="radio"/>         | <input type="radio"/> |
| Telemedicine          | <input type="radio"/>    | <input type="radio"/>         | <input type="radio"/> |
| Rehabilitation        | <input type="radio"/>    |                               |                       |

### 10. Please tell us about your rehabilitation service

*(Please select one only)*

- Rehabilitation ward within acute hospital in **same** building of **same** health campus
- Rehabilitation ward within acute hospital in **separate** buildings of **same** health campus
- Rehabilitation ward within acute hospital in **separate** buildings on a **separate** health campus
- Rehabilitation service within acute hospital (no dedicated beds, but ward(s) with stroke rehabilitation beds)

### Section 3 Oral health care practices for patients with stroke.

This section focuses on oral health care practices for patients with stroke in your stroke unit or ward. This section is **not** about swallow screening protocols.

**11. Does your stroke unit or the ward where the majority of your patients with stroke are managed, have a protocol or guidelines about oral health care practices after acute stroke?**

- Yes – stroke patient specific oral care protocol
- Yes – general oral care protocol for all patients
- No (*go to question 13*)
- Don't know (*go to question 13*)

**12. How likely are clinical staff to use the oral care protocol?**

- Highly Likely
- Likely
- Unsure
- Unlikely
- Highly Unlikely

**13. Have staff working at your hospital received training in oral care provision in the last year?**

- Yes
- No (*go to question 16*)
- Unsure (*go to question 16*)

**14. Which staff groups working in stroke care have received training in oral care provision?**

*Please tick all that apply.*

|                          |   |
|--------------------------|---|
| <input type="checkbox"/> | Registered Nurse  |
| <input type="checkbox"/> | Enrolled Nurse  |
| <input type="checkbox"/> | Healthcare Assistant (UK)/ Assistant in Nursing (AUS)   |
| <input type="checkbox"/> | Physician Assistant/Associate   |
| <input type="checkbox"/> | Student Nurse   |
| <input type="checkbox"/> | Specialist Stroke Nurse (Clinical Nurse Consultant, Clinical Nurse Specialist, Nurse Practitioners) |
| <input type="checkbox"/> | Speech and Language Therapist / Speech Pathologist  |
| <input type="checkbox"/> | Occupational Therapist  |
| <input type="checkbox"/> | Unsure  |
| <input type="checkbox"/> | Other, <i>please specify:</i> _____   |

**15. Who provided the training?**

*Please tick all that apply.*

|                          |  |
|--------------------------|--|
| <input type="checkbox"/> | Clinical Nurse Educator  |
| <input type="checkbox"/> | Nurse Practitioner   |
| <input type="checkbox"/> | Speech therapist/pathologist   |
| <input type="checkbox"/> | Specialist Stroke Nurse (Clinical Nurse Consultant, Clinical Nurse Specialist, Nurse Practitioner) |
| <input type="checkbox"/> | Dentist/ Dental Hygienist  |
| <input type="checkbox"/> | Other hospital dental staff  |
| <input type="checkbox"/> | Nurse educator   |
| <input type="checkbox"/> | Informal (from other staff)  |
| <input type="checkbox"/> | External Health Professional/Educator  |
| <input type="checkbox"/> | Unsure   |
| <input type="checkbox"/> | Other, <i>please specify:</i> _____  |

**16. Are dental professionals employed by your hospital?**

- Yes
- No
- Unsure

**17. Do dental professionals support staff on your stroke unit or ward?**

- Yes
- No (*go to question 21*)
- Unsure (*go to question 21*)

**18. If yes, what best describes the service that dental professionals provide on your stroke unit or ward?**

- Referral or on request
- Regular dedicated sessions
- Unsure
- Other, ***please specify:*** \_\_\_\_\_

**19. How often do you get help from dental professionals?**

***Please tick all that apply.***

- Several times a week
- Once a week
- Once a month
- Once every few months
- Other: \_\_\_\_\_

**20. Which dental professionals provide this help?**

***Please tick all that apply.***

- Patient's own dental practitioner
- Maxillofacial staff
- Dental hospital staff
- Dental hygienists
- Community dentists
- Don't know
- No dental professionals provided help
- Other, ***please specify:*** \_\_\_\_\_



## Section 4 Assessment of oral health care practices for stroke patients.

This section is about assessment and provision of oral care for stroke patients who are in your stroke unit or ward.

### 21. Does your ward or unit use an oral care assessment tool?

**Please tick all that apply.**

|                          |  |
|--------------------------|--|
| <input type="checkbox"/> | No tool used   |
| <input type="checkbox"/> | The Holistic and Reliable Oral Assessment Tool (THROAT)  |
| <input type="checkbox"/> | Oral Health Assessment Tool (OHAT)                       |
| <input type="checkbox"/> | Oral Assessment Tool (Eiler)                             |
| <input type="checkbox"/> | Oral Cavity Assessment Tool (OCAT)                       |
| <input type="checkbox"/> | Lockwood's Oral Health Assessment Tool (LOHAT)           |
| <input type="checkbox"/> | Beck Oral Assessment Scale (BOAS)                        |
| <input type="checkbox"/> | Oral Assessment and Intervention tool (OAIT)             |
| <input type="checkbox"/> | Geriatric Oral Health Assessment Scale (GOHAI)           |
| <input type="checkbox"/> | Brief Oral Health Status Examination (BOHSE)             |
| <input type="checkbox"/> | Oral Assessment Guide (OAG)                              |
| <input type="checkbox"/> | Rattenbury, Mooney, Bowen Mouth Assessment Tool (RMBMAT) |
| <input type="checkbox"/> | Mouth Care Assessment Tool (MCAT)                        |
| <input type="checkbox"/> | Daily oral health assessment (DOHA)                      |
| <input type="checkbox"/> | Local area/hospital specific tool                        |
| <input type="checkbox"/> | Unsure   |
| <input type="checkbox"/> | Other, <b>please specify:</b> _____                      |

**22. How likely would an oral care assessment be undertaken at the following times?**

*Please tick one box on each line.*

| Frequency of assessment                                | Highly Likely | Likely | Unsure | Unlikely | Highly Unlikely | N/A |
|--|---------------|--------|--------|----------|-----------------|-----|
| On admission to ward/unit                              |               |        |        |          |                 |     |
| Every nursing shift                                    |               |        |        |          |                 |     |
| Daily  |               |        |        |          |                 |     |
| Weekly   |               |        |        |          |                 |     |
| As required or ad-hoc                                  |               |        |        |          |                 |     |
| On discharge   |               |        |        |          |                 |     |
| Other, <i>please specify</i> : _____<br>_____<br>_____ |               |        |        |          |                 |     |

**23. How likely is each factor listed below to influence whether an oral care assessment is undertaken?**

*Please tick one box on each line.*

| <b>Patient factors</b>                 | <b>Highly Likely</b> | <b>Likely</b> | <b>Unsure</b> | <b>Unlikely</b> | <b>Highly Unlikely</b> |
|--|----------------------|---------------|---------------|-----------------|------------------------|
| Dysphagia                              |                      |               |               |                 |                        |
| Aphasia                                |                      |               |               |                 |                        |
| Dysarthria                             |                      |               |               |                 |                        |
| Cognitive impairment                   |                      |               |               |                 |                        |
| Alert and able to self-manage          |                      |               |               |                 |                        |
| Unconsciousness                        |                      |               |               |                 |                        |
| Physical impairment (upper limbs)      |                      |               |               |                 |                        |
| Physical impairment (lower limbs)      |                      |               |               |                 |                        |
| Nil by mouth                           |                      |               |               |                 |                        |
| Inattention/visual field problems      |                      |               |               |                 |                        |
| Patient's poor motivation              |                      |               |               |                 |                        |
| Malnourished                           |                      |               |               |                 |                        |
| Dehydrated                             |                      |               |               |                 |                        |
| Poor dental health                     |                      |               |               |                 |                        |
| Own teeth                              |                      |               |               |                 |                        |
| Dentures                               |                      |               |               |                 |                        |
| Older age                              |                      |               |               |                 |                        |
| Patient on medication that dries mouth |                      |               |               |                 |                        |
| Facial weakness                        |                      |               |               |                 |                        |
| Oxygen therapy                         |                      |               |               |                 |                        |
| Other, <i>please specify</i><br>_____  |                      |               |               |                 |                        |
| Other, <i>please specify</i><br>_____  |                      |               |               |                 |                        |

**24. How likely are the following professional groups to conduct an oral care assessment?**

*Please tick one box for each professional group.*

| <b>Professional group</b>  | <b>Highly Likely</b> | <b>Likely</b> | <b>Unsure</b> | <b>Unlikely</b> | <b>Highly Unlikely</b> | <b>N/A</b> |
|--|----------------------|---------------|---------------|-----------------|------------------------|------------|
| Registered Nurse   |                      |               |               |                 |                        |            |
| Enrolled Nurse/Advanced Diploma Nurse  |                      |               |               |                 |                        |            |
| Assistant in Nursing/Health care assistant   |                      |               |               |                 |                        |            |
| Student Nurse  |                      |               |               |                 |                        |            |
| Clinical Nurse Consultant  |                      |               |               |                 |                        |            |
| Specialist Stroke Nurse (including Clinical Nurse Consultant, Clinical Nurse Specialist, Nurse Practitioner) |                      |               |               |                 |                        |            |
| Nurse Practitioner   |                      |               |               |                 |                        |            |
| Speech and Language Therapist/ Speech Pathologist  |                      |               |               |                 |                        |            |
| Occupational Therapist   |                      |               |               |                 |                        |            |
| Dieticians   |                      |               |               |                 |                        |            |
| Doctor   |                      |               |               |                 |                        |            |
| Dentist/ Dental Hygienist  |                      |               |               |                 |                        |            |
| Oral/ Maxillofacial Surgeon  |                      |               |               |                 |                        |            |
| Other, <b><i>please specify</i></b><br>_____   |                      |               |               |                 |                        |            |
| Other, <b><i>please specify</i></b><br>_____   |                      |               |               |                 |                        |            |

**25. If a patient with stroke is incapable of independent oral care, how likely is each professional group to provide oral care?**

*Please tick one box for each professional group.*

| Professional group   | Highly Likely | Likely | Unsure | Unlikely | Highly Unlikely | N/A |
|--|---------------|--------|--------|----------|-----------------|-----|
| Registered Nurse   |               |        |        |          |                 |     |
| Enrolled Nurse/Advanced Diploma Nurse  |               |        |        |          |                 |     |
| Assistant in Nursing/Health care assistant   |               |        |        |          |                 |     |
| Student Nurse  |               |        |        |          |                 |     |
| Clinical Nurse Consultant  |               |        |        |          |                 |     |
| Specialist Stroke Nurse (Clinical Nurse Consultant, Clinical Nurse Specialist, Nurse Practitioner) |               |        |        |          |                 |     |
| Nurse Practitioner   |               |        |        |          |                 |     |
| Speech and Language Therapist/ Speech Pathologist  |               |        |        |          |                 |     |
| Occupational Therapist   |               |        |        |          |                 |     |
| Dieticians   |               |        |        |          |                 |     |
| Doctor   |               |        |        |          |                 |     |
| Dentist/ Dental Hygienist  |               |        |        |          |                 |     |
| Oral/ Maxillofacial Surgeon  |               |        |        |          |                 |     |
| Other, <i>please specify</i> :<br>_____  |               |        |        |          |                 |     |

**26. If a patient is incapable of independent oral care, are family or carers (non-professionals) encouraged to provide oral care to patients with acute stroke?**

- |                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | Yes                                 |
| <input type="checkbox"/> | No ( <i>go to question 28</i> )     |
| <input type="checkbox"/> | Unsure ( <i>go to question 28</i> ) |

27. If yes, do they receive any oral care training or guidance from health professionals?

|                          |        |
|--------------------------|--------|
| <input type="checkbox"/> | Yes    |
| <input type="checkbox"/> | No     |
| <input type="checkbox"/> | Unsure |

28. If a patient with stroke is incapable of independent oral care, how often are staff expected to perform the cleaning of natural teeth, dentures and oral soft tissue?

*Please tick one option for each of the three columns.*

| Option                                 | Cleaning of natural teeth | Cleaning of dentures | Cleaning of soft tissue |
|--|---------------------------|----------------------|-------------------------|
| Three times a day                      |                           |                      |                         |
| Twice a day                            |                           |                      |                         |
| Once a day                             |                           |                      |                         |
| Weekly                                 |                           |                      |                         |
| Never                                  |                           |                      |                         |
| Unsure                                 |                           |                      |                         |
| Other, <b>please specify:</b><br>_____ |                           |                      |                         |

29. For patients incapable of independent oral care and who fall into any of the three groups in the table below, how often are staff expected to perform oral care for them?

*Please tick one option for each of the three columns.*

| Option                                 | 1. Nil by mouth | 2. Modified diet | 3. Normal diet |
|--|-----------------|------------------|----------------|
| Three times a day                      |                 |                  |                |
| Twice a day                            |                 |                  |                |
| Once a day                             |                 |                  |                |
| Weekly                                 |                 |                  |                |
| Never                                  |                 |                  |                |
| Unsure                                 |                 |                  |                |
| Other, <b>please specify:</b><br>_____ |                 |                  |                |

**30. If a patient can attend to their own oral care, how likely are they to be routinely assessed by staff on their ability to continue to perform their own oral care?**

- Highly likely
- Likely
- Unsure
- Unlikely
- Highly unlikely

**31. Are oral health care practices documented in each patient's medical records?**

- Yes
- No (*go to question 35*)
- Unsure (*go to question 35*)

**32. Where are oral health care practices documented and how likely are they to be documented?**

*Please tick one box for each document type.*

| Document type                          | Highly Likely | Likely | Unsure | Unlikely | Highly Unlikely |
|--|---------------|--------|--------|----------|-----------------|
| Dedicated oral care form               |               |        |        |          |                 |
| Patient clinical/progress notes        |               |        |        |          |                 |
| Care plan                              |               |        |        |          |                 |
| Clinical pathway                       |               |        |        |          |                 |
| Observation chart                      |               |        |        |          |                 |
| Other, <i>please specify:</i><br>_____ |               |        |        |          |                 |
| Other, <i>please specify:</i><br>_____ |               |        |        |          |                 |

**33. How often are staff expected to document oral health care practices?**

*Please tick one box for each frequency of documentation option.*

| <b>Frequency of documentation</b>      | <b>Never</b> | <b>Rarely</b> | <b>Sometimes</b> | <b>Often</b> | <b>Always</b> |
|--|--------------|---------------|------------------|--------------|---------------|
| On admission to ward/unit              |              |               |                  |              |               |
| Every nursing shift                    |              |               |                  |              |               |
| Daily                                  |              |               |                  |              |               |
| Weekly                                 |              |               |                  |              |               |
| As required or ad-hoc                  |              |               |                  |              |               |
| On discharge                           |              |               |                  |              |               |
| Never                                  |              |               |                  |              |               |
| Other, <i>please specify:</i><br>_____ |              |               |                  |              |               |



**34. What aspects of oral health care are documented and how likely are they to be documented?**

*Please tick one box for each oral care element.*

| <b>Oral care elements</b>   | <b>Highly Likely</b> | <b>Likely</b> | <b>Unsure</b> | <b>Unlikely</b> | <b>Highly Unlikely</b> |
|---|----------------------|---------------|---------------|-----------------|------------------------|
| Date/time oral care occurred  |                      |               |               |                 |                        |
| Frequency of oral care (e.g. how often attended)  |                      |               |               |                 |                        |
| Areas of the mouth cleaned (e.g. teeth, dentures etc.)  |                      |               |               |                 |                        |
| Equipment used to perform oral care   |                      |               |               |                 |                        |
| Who provided care (e.g. hospital staff; patient; carer)   |                      |               |               |                 |                        |
| Whether an oral health care plan was developed  |                      |               |               |                 |                        |
| All elements as above using a generic tick box option on a care plan or pathway that indicates 'all oral health assessment and care attended' |                      |               |               |                 |                        |
| Other, <i>please specify</i> :<br>_____   |                      |               |               |                 |                        |

## Section 5 Provision of oral health care resources.

This section is about the equipment and resources available on your unit or ward to facilitate and support oral care for patients with stroke.

**35. If patients do not have their own oral hygiene products, which of the following are provided on your stroke ward or unit?**

*Please tick all that apply.*

|                          |                     |                          |  |
|--------------------------|---------------------|--------------------------|--|
| <input type="checkbox"/> | Manual toothbrush   | <input type="checkbox"/> | Denture brush                            |
| <input type="checkbox"/> | Electric toothbrush | <input type="checkbox"/> | Steradent                                |
| <input type="checkbox"/> | Toothpaste          | <input type="checkbox"/> | Corsodyl/chlorhexidine                   |
| <input type="checkbox"/> | Foam swab           | <input type="checkbox"/> | Mouthwash tablets                        |
| <input type="checkbox"/> | Glycerine swab      | <input type="checkbox"/> | Sodium bicarbonate                       |
| <input type="checkbox"/> | Bleach              | <input type="checkbox"/> | Saline/sodium chloride solution          |
| <input type="checkbox"/> | Mouthwash           | <input type="checkbox"/> | Sodium hypochlorite (Milton)             |
| <input type="checkbox"/> | Dental floss        | <input type="checkbox"/> | Denture adhesive                         |
| <input type="checkbox"/> | Suction equipment   | <input type="checkbox"/> | Ascorbic acid/Vitamin C                  |
| <input type="checkbox"/> | Soft cloth/towel    | <input type="checkbox"/> | Other decontaminants e.g. Antibiotic gel |
| <input type="checkbox"/> | Tongue scraper,     | <input type="checkbox"/> | Other, <i>please specify</i> : _____     |
| <input type="checkbox"/> | Suction toothbrush  |                          |  |

**36. Which of the following are available for patients with a dry mouth?**

*Please tick all that apply.*

|                          |                                      |                          |                                     |
|--------------------------|--------------------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | Artificial saliva                    | <input type="checkbox"/> | Malic acid                          |
| <input type="checkbox"/> | Citric acid                          | <input type="checkbox"/> | Chewing gum                         |
| <input type="checkbox"/> | Lemon & glycerine swab               | <input type="checkbox"/> | Nicotinamide/Vitamin B <sub>3</sub> |
| <input type="checkbox"/> | Ascorbic acid/Vitamin C              | <input type="checkbox"/> | Pilocarpine                         |
| <input type="checkbox"/> | Pastilles/lollipops                  | <input type="checkbox"/> | Biotene                             |
| <input type="checkbox"/> | Oral fluid (water/tea/soft drink)    | <input type="checkbox"/> | None                                |
| <input type="checkbox"/> | Other, <i>please specify</i> : _____ |                          |                                     |

## Section 6 Factors influencing oral care provision.

This section focuses on your views about potential barriers to providing oral care to stroke patients.

**37. Consider each statement below and indicate your level of agreement for each.**

|                        | Statement  | Strongly agree | Agree | Unsure | Disagree | Strongly disagree |
|------------------------|--|----------------|-------|--------|----------|-------------------|
| Staff Factors          | Staff do not routinely document when oral care has been delivered to patients                        |                |       |        |          |                   |
|                        | I am satisfied with the level of <u>oral care provided</u> to patients in my ward/unit               |                |       |        |          |                   |
|                        | Ward staff are too busy with other ward duties to conduct oral care                                  |                |       |        |          |                   |
|                        | Staff shortages impact on staff capacity to deliver oral care  |                |       |        |          |                   |
|                        | Nurses lack confidence in delivering oral health care  |                |       |        |          |                   |
|                        | Oral care is perceived by nurses as less important than other aspects of patient care                |                |       |        |          |                   |
|                        | Nurses lack awareness about the health benefits of oral health                                       |                |       |        |          |                   |
|                        | There is a lack of evidence to support oral health care after stroke                                 |                |       |        |          |                   |
|                        | I am happy with the level of <u>oral health education</u> provided on my ward/unit                   |                |       |        |          |                   |
| Organisational factors | There is variability and inconsistency in oral health care provision                                 |                |       |        |          |                   |
|                        | No assessment tool is used on my unit/ward to guide oral care assessment                             |                |       |        |          |                   |
|                        | Carers/family members are encouraged to undertake oral health care                                   |                |       |        |          |                   |
|                        | Oral care after stroke is a neglected area of practice   |                |       |        |          |                   |
|                        | Safety issues are a concern for staff and patients when undertaking oral health care i.e. aspiration |                |       |        |          |                   |
|                        | There is a lack of hospital and/or ward protocols on oral health care for patients after stroke      |                |       |        |          |                   |
|                        | There is a lack of equipment i.e. toothbrushes, mouth rinses, dental floss, suction, on my unit/ward |                |       |        |          |                   |
|                        | There is a lack of access to specialist dental care at my hospital                                   |                |       |        |          |                   |
|                        | Pre-registration education and training of nurses in oral health care provision is inadequate        |                |       |        |          |                   |
|                        | Post-registration education and training of nurses in oral health care is inadequate                 |                |       |        |          |                   |
| Patient factors        | Difficulties communicating with stroke patients when attempting to deliver oral care is a barrier    |                |       |        |          |                   |
|                        | Altered patient sensory perception is a barrier to oral care, i.e. hypersensitivity, pain, numbness  |                |       |        |          |                   |
|                        | Stroke patients may have an altered sensation of thirst  |                |       |        |          |                   |
|                        | It is difficult to provide oral care after stroke to patients with cognitive impairment              |                |       |        |          |                   |

**Section 7 Oral intake (hydration and nutrition).**

This section focuses on practices relating to monitoring oral intake, nutritional and hydration status of stroke patients.

**38. How likely are oral care assessments to include daily monitoring of oral intake?**

- Highly likely
- Likely
- Unsure
- Unlikely
- Highly unlikely

**39. Is nutritional status assessed at any time during the admission?**

- Yes
- No (*go to question 43*)
- Unsure (*go to question 43*)

**40. Who assesses nutritional status?**

***Please tick all that apply.***

- Doctor
- Dietician
- Nurse
- Other, ***please specify:*** \_\_\_\_\_
- Unsure

**41. When and how often is nutritional status assessed?**

***Please tick all that apply.***

- On admission
- Daily
- Weekly
- On referral
- Unsure
- Other, ***please specify:*** \_\_\_\_\_

**42. Which of the following measure(s) are used to assess nutritional status?**

*Please tick all that apply.*

|                          |                                      |                          |  |
|--------------------------|--------------------------------------|--------------------------|--|
| <input type="checkbox"/> | Visual assessment of patient         | <input type="checkbox"/> | Blood tests:                                 |
| <input type="checkbox"/> | Estimation of weight                 | <input type="checkbox"/> | Albumin                                      |
| <input type="checkbox"/> | Scales                               | <input type="checkbox"/> | Pre albumin                                  |
| <input type="checkbox"/> | Body mass index (BMI)                | <input type="checkbox"/> | Other:                                       |
| <input type="checkbox"/> | Food chart/diary                     | <input type="checkbox"/> | MUST (Malnutrition Universal Screening Tool) |
| <input type="checkbox"/> | Other, <i>please specify</i> : _____ | <input type="checkbox"/> | Skin fold thickness/upper arm measurement    |

\_\_\_\_\_

**43. If a patient is underweight or overweight, how is the required calorie intake for that patient determined?**

*Please tick all that apply.*

|                          |                                      |   |
|--------------------------|--------------------------------------|---|
| <input type="checkbox"/> | Ask dietician                        |   |
| <input type="checkbox"/> | Calculate from weight                | <i>Please give calculation formula:</i> _____ |
| <input type="checkbox"/> | Calculate from BMI                   | <i>Please give calculation formula:</i> _____ |
| <input type="checkbox"/> | Unsure                               |   |
| <input type="checkbox"/> | Other, <i>please specify</i> : _____ |   |

**44. Is hydration status assessed?**

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | Yes                                 |
| <input type="checkbox"/> | No ( <i>go to question 47</i> )     |
| <input type="checkbox"/> | Unsure ( <i>go to question 47</i> ) |

**45. By whom is hydration status assessed?**

*Please tick all that apply.*

|                          |                                      |
|--------------------------|--------------------------------------|
| <input type="checkbox"/> | Doctor                               |
| <input type="checkbox"/> | Dietician                            |
| <input type="checkbox"/> | Nurse                                |
| <input type="checkbox"/> | Other, <i>please specify</i> : _____ |
| <input type="checkbox"/> | Unsure                               |

46. If hydration status is assessed, please indicate below which measures are used, and the frequency the assessments occur.

*Please tick all that apply.*

| Hydration status measure  | Admission | Daily | Weekly or more | Never | As required | Don't know |
|---|-----------|-------|----------------|-------|-------------|------------|
| Visual assessment of patient  |           |       |                |       |             |            |
| Skin turgidity (pinch skin)   |           |       |                |       |             |            |
| Thirsty - patient reported  |           |       |                |       |             |            |
| Dry mouth - patient reported  |           |       |                |       |             |            |
| Weight  |           |       |                |       |             |            |
| BMI   |           |       |                |       |             |            |
| Weight change   |           |       |                |       |             |            |
| Measure urine output  |           |       |                |       |             |            |
| Look at colour of urine   |           |       |                |       |             |            |
| Fluid balance chart   |           |       |                |       |             |            |
| Heart rate  |           |       |                |       |             |            |
| Structured tool: <b>Please state name of tool</b> _____<br>_____  |           |       |                |       |             |            |
| Urine tests: Specific Gravity   |           |       |                |       |             |            |
| Other: <b>Please specify</b> _____<br>_____   |           |       |                |       |             |            |
| Blood tests: Osmolality   |           |       |                |       |             |            |
| Osmolarity  |           |       |                |       |             |            |
| Urea: creatinine ratio  |           |       |                |       |             |            |
| Other: <b>Please specify</b> _____<br>_____   |           |       |                |       |             |            |
| Bioelectrical impedance analysis (BIA)<br><b>If BIA used, what is the definition of dehydrated in Hz Axillial moisture?</b> |           |       |                |       |             |            |
| Other: <b>Please specify</b> _____<br>_____   |           |       |                |       |             |            |

47. If a patient is dehydrated, how is the required fluid intake amount determined?

*Please tick all that apply.*

|                          |                                      |
|--------------------------|--------------------------------------|
| <input type="checkbox"/> | Ask physician                        |
| <input type="checkbox"/> | Calculated from weight               |
| <input type="checkbox"/> | Calculated from BMI                  |
| <input type="checkbox"/> | Calculated from blood tests          |
| <input type="checkbox"/> | Unknown                              |
| <input type="checkbox"/> | Other, <i>please specify</i> : _____ |

48. If fluid replacement is required, which approach would most often be used for each of the two patient populations shown in the table below?

*Please tick one option for each column.*

| Fluid replacement options                                       | Patient without dysphagia | Patient with dysphagia |
|---|---------------------------|------------------------|
| Oral fluids   |                           |                        |
| Intravenous fluids  |                           |                        |
| Subcutaneous fluids   |                           |                        |
| Nasogastric/nasoenteric fluids                                  |                           |                        |
| PEG fluids  |                           |                        |
| Unsure  |                           |                        |
| Combination of approaches: <i>please specify</i> _____<br>_____ |                           |                        |

**49. How likely is monitoring of oral intake and/or hydration status to be documented in the following?**

*Please tick one box in each row.*

| Source of oral intake/hydration status documentation | Highly Likely | Likely | Unsure | Unlikely | Highly Unlikely |
|--|---------------|--------|--------|----------|-----------------|
| Dedicated oral care form                             |               |        |        |          |                 |
| Patient clinical/progress notes                      |               |        |        |          |                 |
| Care plan  |               |        |        |          |                 |
| Clinical pathway                                     |               |        |        |          |                 |
| Observation chart                                    |               |        |        |          |                 |
| Fluid balance chart (intake and output)              |               |        |        |          |                 |
| Food diary/chart                                     |               |        |        |          |                 |
| Not routinely documented                             |               |        |        |          |                 |
| Other, <i>please specify</i> : _____<br>_____        |               |        |        |          |                 |